Parameter: Total Residual Chlorine

Method: Titrimetric, Iodometric Back (Iodate Titrant)

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18th EDITION OF STANDARD METHODS-4500-CL C

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1)	Is PAO or sodium thiosulfate normality 0.00564N? [SM-3.c]		
2)	Is a blank determined daily? [SM-4.b.3]		
3)	Is the blank titration documented? [Permit]		
4)	Is iodate normality 0.00564N? [SM-3.j]		
5)	Are reagents free of contamination or growths? [Permit]		
6)	Are reagents within their indicated shelf lives? [Permit]		
7)	Is 200 mL of sample used? [SM-4.a.1]		
8)	Is 5 mL of PAO or thiosulfate used? [SM-4.a.2]		
9)	Is KI added? [SM-4.b.3]		
10)	Is 2 mL 10% H ₃ PO ₄ added? [SM-4.b.3]		
11)	Is at least 1 mL starch solution added? [SM-4.b.3]		
12)	Are the reagents added in order-e.g. PAO or thiosulfate first, KI second, $10\%~H_3PO_4$ third, and starch solution fourth? [SM-4.b.3]		
13)	Is the sample titrated immediately after sample solution is mixed? [SM-4.b.3]		
14)	Is the titrant added until the first appearance of blue color that persists after complete mixing? [SM-4.b.3]		
15)	Is the sample value calculated correctly? [SM-5.b]		
	TRC (mg/L) = (A - B) x 200 C A = mL iodate used for blank B = mL iodate used for sample C = mL of sample		

PROBLEMS: